

J F Sharpey-Schafer

List of Publications by Year in descending order

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104
papers

3,164
citations

186265

28
h-index

168389

53
g-index

104
all docs

104
docs citations

104
times ranked

736
citing authors

#	ARTICLE	IF	CITATIONS
1	Competition of rotation around the intermediate and long axes in Tl193. Physical Review C, 2019, 100, .	2.9	5
2	Stapler mechanism for a dipole band in ^{79}Se . Physical Review C, 2019, 100, .	2.9	6
3	Stiff-deformed nuclei, configuration dependent pairing and the 2 and 3 degrees of freedom. European Physical Journal A, 2019, 55, 1.	2.5	29
4	Rare low-spin positive-parity states in $N = 88$ Dy. European Physical Journal A, 2018, 54, 1.	2.5	6
5	Quasiparticle and 3 -band structures in ^{156}Dy . Physical Review C, 2018, 97, .	2.9	18
6	Spectroscopic study of the possibly triaxial transitional nucleus ^{75}Ge . Physical Review C, 2018, 97, .	2.9	1
7	Low-lying positive parity bands in ^{162}Yb . European Physical Journal A, 2018, 54, 1.	2.5	7
8	Evidence for Octupole Correlations in Multiple Chiral Doublet Bands. Physical Review Letters, 2016, 116, 112501.	7.8	86
9	Octupole correlations in ^{88}Dy : Octupole vibration versus stable deformation. Physical Review C, 2016, 94, .	2.9	12
10	The Subtleties of Pairing and Collective Structures in Deformed Nuclei. , 2015, , .		0
11	High-resolution two-proton stripping to $2p-1h$ $7/2^-$ states via the $^{59}\text{Co}(^3\text{He},n)^{61}\text{Cu}$ reaction. European Physical Journal A, 2014, 50, 1.	2.5	3
12	Spin-parity assignments and extension of the 0_2^+ band in ^{158}Er . EPJ Web of Conferences, 2013, 63, 01005.	0.3	1
13	TETRAHEDRAL SHAPES AND OCTUPOLE EXCITATIONS IN THE MASS 160 AND 230 REGIONS. , 2013, , .		0
14	Two-Particle Separation Energies in the Superdeformed Well. Journal of Physics: Conference Series, 2011, 312, 092065.	0.4	1
15	Congruent band structures in ^{154}Gd : Configuration-dependent pairing, a double vacuum and lack of 2 -vibrations. European Physical Journal A, 2011, 47, 1.	2.5	44
16	Blocking of coupling to the 0_2^+ excitation in ^{154}Gd by the $[505]11/2^-$ neutron in ^{155}Gd . European Physical Journal A, 2011, 47, 1.	2.5	28
17	Two-Particle Separation Energy Trends in the Superdeformed Well. Physical Review Letters, 2010, 104, 162501.	7.8	11
18	Possible chirality in the doubly-odd ^{198}Tl nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	2.9	75

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19	Linear Polarization Measurement of Interband Transitions in Superdeformed ¹⁹⁰ Hg: Model-Independent Evidence for Octupole Vibrational Structures. <i>Physical Review Letters</i> , 2001, 86, 2746-2749.	7.8	22
20	Study of Mass A=130 Fission Fragments in the ¹⁴ n + ²³⁸ U Reaction at 10 MeV/A. , 2000, , 63-67.		0
21	Exploring the $\hbar = 50$ -60 hbar domain: collective and terminating structures in ¹⁵⁶ Dy, ¹⁵⁹ Er and ¹⁶⁰ Er. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1999, 25, 897-899.	3.6	14
22	Intrinsic proton states around the superdeformed shell closure Z=80. <i>Physical Review C</i> , 1998, 58, 3260-3265.	2.9	10
23	High spin structures of ¹²² Xe. <i>Zeitschrift für Physik A</i> , 1997, 358, 37-45.	0.9	12
24	Octupole vibrations of the superdeformed ¹⁹⁶ Pb nucleus. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 1997, 6, 289-293.	0.4	2
25	Configurations of superdeformed bands in ¹⁹³ Pb. <i>Physical Review C</i> , 1996, 53, 2701-2708.	2.9	19
26	Dipole bands and multi-quasiparticle excitations in ¹⁹³ Pb. <i>Zeitschrift für Physik A</i> , 1996, 356, 241-249.	0.9	22
27	High spin structures in ¹⁹⁴ Hg. <i>Zeitschrift für Physik A</i> , 1996, 354, 169-175.	0.9	4
28	Dipole bands in the oblate-shaped ¹⁹⁵ Pb. <i>Zeitschrift für Physik A</i> , 1996, 354, 267-275.	0.9	7
29	Fragmentation of the Decay from the Superdeformed Yrast Band in ¹⁹² Hg. <i>Physical Review Letters</i> , 1996, 77, 1707-1710.	7.8	24
30	Superdeformation in bismuth. <i>Physical Review C</i> , 1996, 53, 117-123.	2.9	23
31	The ¹³² proton intruder orbital in the superdeformed ¹⁹³ Tl nucleus: Effective magnetic moment and blocking of proton pairing. <i>Physical Review C</i> , 1996, 53, R9-R13.	2.9	36
32	Collective and quasiparticle excitations in superdeformed ¹⁹⁰ Hg. <i>Physical Review C</i> , 1996, 54, 559-567.	2.9	34
33	High-spin results for ¹⁵⁵ Tb. <i>Physical Review C</i> , 1996, 53, 989-992.	2.9	8
34	M1 transitions between superdeformed states in ¹⁹⁴ , ¹⁹⁵ Tl: The fingerprint of the ^{13/2} proton intruder orbital. <i>Physica Scripta</i> , 1995, T56, 35-38.	2.5	11
35	High-spin structure of ¹²¹ Xe: Triaxiality, band termination and signature inversion. <i>Physica Scripta</i> , 1995, T56, 325-327.	2.5	2
36	High spin levels in ¹¹⁹ Te. <i>Zeitschrift für Physik A</i> , 1995, 352, 243-244.	0.9	10

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37	Confirmation of the existence of a superdeformed rotational band in ^{192}Pb . Zeitschrift für Physik A, 1995, 352, 13-14.	0.9	5
38	Superdeformation in the bismuth nuclei. Physical Review C, 1995, 51, R1052-R1056.	2.9	15
39	High-spin structure of ^{121}Xe : triaxiality and band termination. Journal of Physics G: Nuclear and Particle Physics, 1995, 21, 783-802.	3.6	30
40	Two-proton high-K oblate structures in ^{194}Pb . Journal of Physics G: Nuclear and Particle Physics, 1994, 20, 765-773.	3.6	21
41	High-spin gamma-ray spectroscopy of ^{122}Xe . Journal of Physics G: Nuclear and Particle Physics, 1994, 20, 287-305.	3.6	22
42	Pair Excitations and a Proton Band Crossing in Superdeformed ^{150}Gd . Physical Review Letters, 1994, 73, 782-785.	7.8	18
43	Spectrum of β Rays Connecting Superdeformed and Normal States in ^{192}Hg . Physical Review Letters, 1994, 73, 777-781.	7.8	49
44	Recoil distance lifetime measurements of states in the oblate dipole bands of $^{197,198}\text{Pb}$. Physical Review C, 1994, 50, 84-92.	2.9	21
45	Two proton high-spin excitations and dipole bands in ^{192}Hg . Zeitschrift für Physik A, 1994, 348, 87-93.	0.9	23
46	New results on the superdeformed band in ^{192}Hg . Zeitschrift für Physik A, 1994, 347, 223-224.	0.9	18
47	First observation of a superdeformed nucleus produced in an $\hat{I} \pm xn$ reaction channel. Zeitschrift für Physik A, 1994, 349, 5-6.	0.9	4
48	Yrast band spectroscopy of ^{155}Gd and ^{157}Dy . Zeitschrift für Physik A, 1993, 345, 121-122.	0.9	20
49	The high-spin single-particle structure of ^{121}I . Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 913-919.	3.6	19
50	First observation of collective dipole rotational bands in the neutron-deficient bismuth nuclei. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, L57-L62.	3.6	21
51	Coexistence of collective oblate and superdeformed prolate shapes in ^{196}Pb . Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 465-470.	3.6	17
52	First measurement of magnetic properties in a superdeformed nucleus: ^{193}Hg . Physical Review Letters, 1993, 71, 2176-2179.	7.8	53
53	Degenerate superdeformed states in ^{150}Gd . Physical Review Letters, 1993, 71, 1800-1803.	7.8	27
54	Collective dipole rotational bands in ^{197}Pb . Zeitschrift für Physik A, 1992, 342, 371-372.	0.9	32

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55	Gamma-ray spectroscopy of superdeformed states in the nucleus ^{152}Dy . Journal of Physics G: Nuclear and Particle Physics, 1991, 17, 481-510.	3.6	36
56	Seven and nine quasi-particle K-isomers in ^{175}Hf . Zeitschrift für Physik A, Atomic Nuclei, 1990, 337, 353-354.	0.3	7
57	The spectroscopy of $^{161,162}\text{Er}$ at spins up to $50\hbar$, in the unpaired regime. Journal of Physics G: Nuclear and Particle Physics, 1990, 16, L67-L73.	3.6	17
58	Landau-Zener crossing in superdeformed ^{193}Hg : Evidence for octupole correlations in superdeformed nuclei. Physical Review Letters, 1990, 65, 1547-1550.	7.8	71
59	High-K barrier penetration in ^{174}Hf : A challenge to K-selection. Physical Review Letters, 1990, 65, 416-419.	7.8	60
60	Observation of identical superdeformed bands in $N=86$ nuclei. Physical Review Letters, 1990, 64, 1650-1653.	7.8	228
61	The structure of states at very high spin in ^{157}Er . Journal of Physics G: Nuclear and Particle Physics, 1989, 15, 643-659.	3.6	11
62	Rotational band structures in ^{154}Gd . Journal of Physics G: Nuclear and Particle Physics, 1989, 15, 1871-1892.	3.6	27
63	Superdeformation. , 1989, , 147-182.		1
64	Unpaired band crossings. Physical Review Letters, 1988, 60, 553-556.	7.8	19
65	Spin $50\hbar$, in ^{160}Er and the boundary between collective and non-collective rotation in the light Er isotopes. Journal of Physics G: Nuclear Physics, 1987, 13, L235-L240.	0.8	27
66	Near-yrast discrete line γ -ray spectroscopy of ^{159}Er and ^{160}Er to $I^\pi = 40^+$. Journal of Physics G: Nuclear Physics, 1987, 13, 847-881.	0.8	50
67	Intrinsic quadrupole moment of the superdeformed band in ^{152}Dy . Physical Review Letters, 1987, 59, 2141-2144.	7.8	99
68	Dipole bands and multi-quasiparticle excitations in ^{193}Pb . Zeitschrift für Physik A, 1987, 356, 241-249.	0.9	5
69	The strong interaction strength of the first proton alignment in ^{157}Ho . Journal of Physics G: Nuclear Physics, 1986, 12, L67-L74.	0.8	22
70	Coexistence of Prolate and Oblate Structures up to Spin $40\hbar$, in ^{152}Dy . Physical Review Letters, 1986, 56, 2680-2683.	7.8	49
71	Observation of a Discrete-Line Superdeformed Band up to $60\hbar$, in ^{152}Dy . Physical Review Letters, 1986, 57, 811-814.	7.8	546
72	Shape Coexistence and Discrete Superdeformed States up to $60\hbar$ in ^{152}Dy . , 1986, , 88-97.		1

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73	Signature-Dependent Proton Alignments at High Rotational Frequency and the Persistence of Proton Pairing Correlations. <i>Physical Review Letters</i> , 1985, 54, 1132-1135.	7.8	41
74	Collectivity of the Superdeformed Bands in Dy152. <i>Physical Review Letters</i> , 1985, 55, 1380-1383.	7.8	27
75	Rotational alignment in ¹⁵⁸ Er and ¹⁵⁹ Er. <i>Journal of Physics G: Nuclear Physics</i> , 1984, 10, 383-416.	0.8	46
76	Observation of Superdeformation in Dy152. <i>Physical Review Letters</i> , 1984, 52, 507-510.	7.8	98
77	Observation of a Prolate-to-Oblate Shape Change Near Spin 40 \hbar in ¹⁵⁸ Er. <i>Physical Review Letters</i> , 1984, 53, 648-651.	7.8	73
78	The electric field gradient for Gd in gadolinium metal. <i>Hyperfine Interactions</i> , 1980, 8, 271-281.	0.5	11
79	Angular distribution and linear polarisation measurements of gamma rays in ⁴¹ Ca. <i>Journal of Physics G: Nuclear Physics</i> , 1980, 6, 619-635.	0.8	8
80	Quadrupole Moment of a High-Spin Yrast Trap in ¹⁴⁷ Gd. <i>Physical Review Letters</i> , 1980, 44, 132-135.	7.8	63
81	A comprehensive study of the $\hat{\Gamma}^3$ -ray spectroscopy of ⁴³ Ca. <i>Journal of Physics G: Nuclear Physics</i> , 1979, 5, 1117-1155.	0.8	18
82	High-spin states in ⁴³ K. <i>Journal of Physics G: Nuclear Physics</i> , 1979, 5, 971-979.	0.8	10
83	Linear Polarization of the Continuum $\hat{\Gamma}^3$ Rays Feeding High-Spin Yrast States in ^{151,152} Dy and ^{156,158} Er. <i>Physical Review Letters</i> , 1979, 43, 991-994.	7.8	26
84	The measurement of the lifetimes of excited nuclear states. <i>Reports on Progress in Physics</i> , 1979, 42, 1-86.	20.1	107
85	Properties of levels in ⁴¹ K below 3.3 MeV. <i>Journal of Physics G: Nuclear Physics</i> , 1978, 4, 907-921.	0.8	19
86	Gamma-ray spectroscopy of high-spin levels in ⁶⁷ Ga. <i>Journal of Physics G: Nuclear Physics</i> , 1978, 4, 1611-1632.	0.8	13
87	The end-point energy of the superallowed Fermi decay of ^{38m} K. <i>Journal of Physics G: Nuclear Physics</i> , 1978, 4, 579-585.	0.8	12
88	The character of high-spin positive parity states in ⁴¹ Ca. <i>Journal of Physics G: Nuclear Physics</i> , 1977, 3, L75-L79.	0.8	5
89	Decay modes and level lifetimes in ⁴¹ Ca and ⁴¹ K. <i>Journal of Physics G: Nuclear Physics</i> , 1976, 2, 577-587.	0.8	29
90	Gamma ray spectroscopy studies in the nuclei ³⁶ Ar and ³⁶ Cl. <i>Journal of Physics G: Nuclear Physics</i> , 1976, 2, 249-260.	0.8	9

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91	Properties of ^{37}Ar II. Levels above 3.8 MeV excitation energy (populated in $^{34}\text{S}(\hat{1}\pm, n \hat{1}^3)^{37}\text{Ar}$). Journal of Physics G: Nuclear Physics, 1975, 1, 35-52.	0.8	19
92	Electromagnetic and angular momentum properties of states in ^{25}Mg below 6.05 MeV in excitation. Journal of Physics G: Nuclear Physics, 1975, 1, 665-684.	0.8	20
93	High spin states in ^{39}K . Journal of Physics G: Nuclear Physics, 1975, 1, L33-L39.	0.8	15
94	The 4.510 MeV level in ^{27}Al . Journal of Physics A: Mathematical Nuclear and General, 1974, 7, 1151-1155.	1.0	7
95	The properties of low-lying levels in ^{37}Cl (populated in $^{34}\text{S}(\hat{1}\pm, p \hat{1}^3)$ reaction). Journal of Physics A: Mathematical Nuclear and General, 1974, 7, 1437-1447.	1.0	14
96	Lifetime measurements in ^{36}Ar and ^{36}Cl using the recoil distance method.. Journal of Physics A: Mathematical Nuclear and General, 1973, 6, L37-L40.	1.0	13
97	Mean lifetimes of levels in ^{32}P and ^{32}S (populated in $^{29}\text{Si}(\hat{1}\pm, p)$ and $^{29}\text{Si}(\hat{1}\pm, n)$ reactions). Journal of Physics A: Mathematical Nuclear and General, 1973, 6, 705-712.	1.0	6
98	Lifetimes for Levels above the "Rotational Phase Change" in ^{158}Er . Physical Review Letters, 1973, 30, 493-496.	7.8	48
99	A study of the principal decay modes and lifetimes of levels in ^{29}Si below 7.2 MeV. Journal of Physics A: General Physics, 1972, 5, 596-604.	0.8	8
100	Lifetimes and decay modes of energy levels in ^{23}Na , ^{26}Mg and ^{26}Al . Journal of Physics A: General Physics, 1972, 5, 302-317.	0.8	22
101	Evidence of Further Rotational Structure in ^{26}Al . Physical Review C, 1972, 6, 494-497.	2.9	8
102	Decay and lifetimes of levels in ^{21}Ne . Journal of Physics A: General Physics, 1971, 4, 908-917.	0.8	7
103	Lifetime measurements in ^{27}Al . Canadian Journal of Physics, 1968, 46, 261-267.	1.1	43
104	Lifetimes and decay modes of energy levels in ^{25}Mg . Canadian Journal of Physics, 1968, 46, 2039-2053.	1.1	35